Index of Claims



Application/Control No.

10/605,260

Examiner

Igwe U. Anya

Applicant(s)/Patent under Reexamination

BIERY ET AL.

Art Unit

2829

| √ | Rejected |
|---|----------|
| - | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| E       | aim      | I        |     |          |              | D            | ate                     | _              |         |                |              | ]        | CI           | aim |                 |               |   | Dat  | e        |          |   |          | CI  | aim  |                      |          |                | Dat  | e  |          |   | _ |
|---|----------|----------|-----|----------|--------------|--------------|-------------------------|----------------|---------|----------------|--------------|----------|--------------|-----|-----------------|---------------|---|--|----------|----------|---|----------|-----|------|----------------------|----------|----------------|--|--|----------|---|---|
| 1     =     101     102     102     102     102     102     102     103     102     103     103     103     103     103     103     103     103     103     103     103     103     103     104     104     104     104     104     104     104     104     105     105     105     105     105     105     106     106     106     107     108     107     107     108     109   | <u>e</u> | v        | Ţ   |          |              | Ī            | T                       |                |         |                |              |          |              | -m  |                 |               |   |  | $\prod$  |          |   |          |     |      | П                    | $\top$   | П              |  |  | $\Box$   | $\neg$  |   |
| 1     =     1     101     102     102     102     102     102     102     103     102     103     103     103     103     103     103     103     103     103     103     103     103     103     103     104     104     104     104     104     104     104     104     104     104     105     105     105     105     105     106     106     106     107     107     107     107     108     109   | ١ڐۣ      | ,   ş    | ١   | ŀ        |              | 1            | -                       |                |         |                |              |          | 뎔            | Ë   |                 | 1             |   |  | H        |          |   |          | lal | in   |                      | 1        | 1              | ì  |  |          |   |   |
| 1     =     1     101     102     102     102     102     102     102     103     104     104     104     104     104     104     104     104     104     104     104     105     105     105     106     106     106     106     107     107     108     109   | ട്ര്     | <u> </u> | 5   |          | 1            | 1            |                         |                |         |                |              |          | Œ            | Ę   |                 |               | ı   |  |          |          |   |          | 证   | jrig |                      | 1        |                |  |  |          |   |   |
| 102   | 0        |          |     |          | _            |              | ļ                       |                | ĺ       |                |              |          |              | ١٠  |                 |               |   |  |          |          |   |          |     | 0    |                      |          |                |  | ĺ  |          |   |   |
| 2   | 1        | 7=       | :   |          | T            | Т            | T                       |                |         |                | Г            | <b>"</b> |              | 51  |                 |               |   | T  | П        |          | 1   |          |     | 101  |                      |          | 1              | T  |  | H        | 寸   | _ |
| 3   | 2        | T        | : [ |          | Т            | $\neg$       | $\neg$                  |                |         | П              |              |          |              | 52  | П               |               | Ti.   | 1  |          |          |   |          |     |      |                      |          | 1              |  |  | П        | ヿ   | _ |
| 4   | 3        | =        | : 1 |          | $\top$       | $\top$       | ┪                       |                |         |                | Т            | 1        |              |     | $\Box$          |               |   | 1  |          |          |   |          |     |      |                      |          |                |  |  |          | $\neg$  | _ |
| 5   | 4        | T        | :   |          | Т            | Т            | ヿ                       |                |         | Г              | Т            | 1        |              |     | İΠ              | T             |   | 1  | $\Box$   |          |   |          |     |      |                      | $\top$   | T              | <del>                                     </del> | ┪  |          | $\exists$   | _ |
| 66  | 5        | 7=       | :   |          | $\top$       | 7            |                         |                |         |                |              | 1        |              |     | Ħ               |               |   | 1  |          | $\neg$   |   |          |     |      |                      |          | <b>†</b>       | T  |  | $\Box$   | $\dashv$  | _ |
| 10  | 6        | Ţ≡       | :   |          | Τ            |              | 寸                       |                |         |                |              | 1        |              |     |                 |               |   | 1  | $\Box$   | $\top$   |   |          |     |      |                      | $\top$   | T              | t  | Ι-   | $\Box$   | $\dashv$  | _ |
| See   | 7        | =        | :   |          | Т            | 7            | $\neg$                  |                |         | П              | T            | 1        |              | 57  |                 |               |   |  |          | _        |   |          |     |      | $\Box$               |          |                | ⇈  |  | $\Box$   | 寸   | _ |
| 9   | 8        |          | :   |          |              | T            | T                       |                |         |                | 1            | 1        |              |     |                 | T             |   | 1  |          |          |   |          |     |      |                      |          | ╁              | $\vdash$   | T  | Ħ        | 寸   | _ |
| 10   =  | 9        | 1=       | :   | $\top$   | 1            |              |                         |                |         |                |              | 1        |              |     |                 | $\neg$        |   | $\top$   | П        | _ -      |   |          |     |      |                      |          | +-             | $\vdash$   | T  | $\Box$   | ヿ   | _ |
| 11  | 10       | T=       | :   |          |              | 7            |                         | $\neg$         |         |                |              | 1        |              |     | $\Box$          | $\neg$        | T   |  |          |          |   |          |     |      |                      |          | $\top$         |  | †  |          | 寸   | _ |
| 112   | 11       | =        | 1   |          | T            | 7            |                         |                |         |                | Ī            | 1        | -            |     | П               | $\neg$        | $\top$  |  |          | $\top$   | $\dashv \dashv$   |          |     |      | $\neg$               | 1        | $\top$         | T  |  |          | 十   | _ |
| 13  | 12       | 1=       | 1   |          | T            | 7            | $\top$                  |                |         |                |              | 1        |              |     | П               | _             | $\top$  | 1  | $\Box$   | 十        | 77  |          |     |      | _                    | $\top$   | T              | T  | $\vdash$   | -        | $\dashv$  | _ |
| 14  |          |          | :   |          | 1            | 7            | $\dashv$                |                |         |                | Т            | 1        |              |     |                 | $\neg$        | $\top$  | 1  | H        | _ _      | $\top$  |          |     |      | $\dashv$             | $\dashv$ | T              | 1  |  |          | $\dashv$  | _ |
| 15  |          |          | 1   |          | 1            | $\dagger$    | $\dashv$                |                |         | T              |              | 1        |              |     | $\vdash$        | $\dashv$      | +   | 1  |          | _        | $\top$  |          |     |      | $\vdash$             | $\top$   | +              | $\vdash$   |  | $\dashv$ | 十   | _ |
| 16  | _        |          | †   | $\vdash$ | T            | $\dagger$    | $\dashv$                |                |         |                | T            | 1        |              |     | Н               | $\top$        | +   | +  | $\vdash$ | $\dashv$ | $\top$  |          |     | 115  | $\vdash$             | $\dashv$ | ╁              | t  | $\vdash$   | $\dashv$ | 十   | - |
| 17   V  |          |          | -   | $\neg$   | T            | +            | $\dashv$                | $\dashv$       | П       | П              | T            | 1        |              |     | Н               | $\dashv$      | +   | 1  | $\vdash$ |          | 11  |          |     | 116  | +                    | +        | +-             | <del> </del>                                     | <del>                                     </del> | $\dashv$ | $\dashv$  | - |
| 18  |          |          |     | $\neg$   | 十            | +            | $\dashv$                | $\neg$         | _       | $\vdash$       | 1            | 1        |              |     | $\vdash$        | $\dashv$      | 十   | +-   | $\vdash$ | $\dashv$ | +   |          |     | 117  | $\dashv$             | +        | +              | $\vdash$   | $\vdash$   | $\vdash$ | -   | _ |
| 19 =  |          |          |     | 十        | ╁            | +            | $\dashv$                | $\dashv$       |         | $\vdash$       | $\vdash$     | 1        | _            |     | $\vdash$        |               | $\dashv$  | +  | -        |          | +   |          |     |      | $\dashv$             | +        | +-             | ┢  | H  | $\dashv$ | +   | _ |
| 20 =     120       120       120       120       120       121       121       121       121       121       122       122       122       122       122       123       123       123       123       124       124       124       124       124       125       125       125       125       125       125       125       125       126       127       127       127       127       127       127       128       128       128       128       129       129       129       129       129       130       130       131       131       131       131       131       131       132       133  |          |          | _   |          | ╅            | +            | +                       | ┪              |         | <del>  -</del> | ├-           | 1        | <del>⊢</del> |     | ╁               | _ <u>+</u>    |   | +-   |          | +        | +   |          |     |      | $\dashv$             | +        | ╁              | ┢  | Н  | -        | +   | _ |
| 21 =     1  |          |          | -   |          | ╁            | +            | +                       | $\dashv$       |         | ┝              | ┢            | 1        | <u> </u>     |     | $\vdash$        | $\dashv$      | +   | +  | $\vdash$ | +        | ╁┤  |          |     | 120  | -                    | +        | +              |  | -  |          | +   | _ |
| 22 =  |          |          | -   | $\dashv$ | +            | +            | ╁                       |                |         | H              | ╁            | 1        |              |     | H               | -             | +   | +  | $\vdash$ | -        | +   |          |     |      | +                    | +        | ╁╾             | -  | Н  | +        | +   | _ |
| 23 =   73     123     124     124     124     124     124     125     125     125     126     126     127     127     127     127     127     127     128     128     128     128     128     128     128     129     129     129     129     130     130     131     131     131     131     132     132     132     132     132     133     133     133     133     133     133     133     133     133     133     134     134     134     134     134     135     135     135     135     136     136     137     137     137     137     137     137     138     138     138     138     139     140     140     141     141     142     142     144     144     144     144     144     144     144     144     145     145     146     146     146     146     146     146     147     1   |          |          | -   | _        | ╁            | +            | +                       | ┵              |         | $\vdash$       | ⊢            | ł        |              |     | H               |               | +   | +  | -+       |          | +   |          |     |      | $\dashv$             |          | ┼              |  | $\vdash$   |          | +   |   |
| 24   74   124   124   125   125   126   125   126   126   126   127   127   127   127   127   127   127   128   128   128   128   128   128   128   129   129   129   130   130   130   131   131   133   133   133   133   133   133   133   133   133   133   133   133   133   134   134   134   134   134   134   134   134   134   134   133   133   133   133   133   133   134   134   134   134   134   134   134   134   134   134   134   135   135   135   135   136   137   137   137   137   137   137   138   138   138   138   138   138   138   139   140   141   141   141   141   141   142   142   143   144   144   144   144   144   144   |          |          | _   | +        | +            | +            | +                       |                |         |                | 1            |          |              |     |                 |               | +   | +  |          | -        | +   |          |     | 122  | $\dashv$             | -        | ┼              |  |  | _        | -+  | _ |
| 25     125     125     126     126     126     126     126     127     127     127     127     127     128     128     128     128     128     129     129     129     129     130     130     130     130     130     130     130     131     131     131     131     131     131     132     132     132     132     133     133     133     133     133     133     134     134     134     134     134     134     134     134     134     134     135     135     135     135     135     135     136     136     137     137     137     137     137     138     138     138     138     139     140     140     140     140     140     140     141     141     141     141     141     141     141     141     141     142     142     143     143     144     144     144     144     144  |          |          | +   | +        | +            | +            | +                       |                | _       | ┢              |              | 1        |              |     | ╁               | -+            | +   | ╁  | -        |          | +   |          |     |      | $\dashv$             | -        | ╨              | _  | Н  |          | -   |   |
| 26   76   126   127     27   77   78   128   129     30   80   130   130   131     31   81   131   131   131     32   82   132   132   132   133     33   84   84   134   134   134   134   135   135   135   136   137   137   137   137   138   138   138   138   139   140   140   141   141   141   141   141   142   142   142   143   144   144   144   144   144   144   144   145   145   146   147   147   148   |          |          | +   | +        | +            | +            |                         |                |         | ⊢              |              | 1        |              |     |                 |               | +   | +  |          | +        | +   |          |     |      | -                    | -        | ╄              |  | Н  | -        | $\dashv$  | _ |
| 27   127   128   128   128   128   128   129   129   129   130   131   130   131   131   131   131   131   132   132   132   132   132   133   133   134   134   134   134   134   134   135   135   135   135   136   137   137   137   137   138   138   138   138   138   138   138   139   140   140   141   141   141   141   142   142   142   143   144   144   144   144   144   144   144   145   145   146   147   147   148   14   |          |          | +   | +        | ╁            | +            |                         | -              | _       | $\vdash$       |              | {        |              |     | $\vdash$        |               | +   | +  | -        | -        | +   |          |     |      |                      |          | ╄              |  | Н  |          | $\dashv$  | _ |
| 28     78     128       29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146       47     97     147       48     98     148   |          |          | +   | +        | ╀            | ╀            | +                       |                |         | ⊢              | $\vdash$     | 1        |              |     | $\vdash$        | -+            | +   | +  | -        |          | +   |          |     | 126  |                      | +        | ╄              | L  | Н  | $\dashv$ | 4   | _ |
| 29     79     129       30     80     130       31     81     131       32     82     132       33     84     134       35     85     135       36     86     136       37     88     137       38     88     138       39     88     138       40     90     140       41     91     141       42     92     142       43     94     144       44     94     144       45     95     145       46     96     146       47     98     148   |          |          | ┿   | +-       | ╫            | +            | +                       | $\dashv$       |         |                | ├            |          | <u> </u>     |     |                 |               | +   | +-   | $\dashv$ | -        |   |          |     |      |                      |          | ╁              | _  | _  | -        | 4   | _ |
| 30   80   130     31   81   131     32   132   132     33   133   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   146     47   97   147     48   98   148   |          |          | +   |          | +            | +            | +                       | $\dashv$       |         |                | ⊢            | 1        |              |     | $\vdash$        | <b>-</b>      | - -   |  |          |          |   |          |     |      |                      | _        | -              | _  |  | $\dashv$ | $\dashv$  | _ |
| 31     81     131     132     132     132     133   |          |          | +   | +        | +            | +            | +                       |                |         |                |              |          |              |     | $\vdash \vdash$ | _             | $\perp$   | $\bot$   | _        | _ _      | $\perp$   |          |     |      |                      |          | <u> </u>       |  | Ш  | _        | 4   | _ |
| 32   33   34   35   36   37   36   37   38   38   39 <td< td=""><td></td><td>+</td><td>+</td><td>-</td><td>+-</td><td>-</td><td>4</td><td>_</td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>-</td><td></td><td></td><td>4</td><td><b>.</b></td><td></td><td></td><td> -</td><td></td><td><math>oxed{oxed}</math></td><td>_</td><td></td><td></td><td>_</td><td></td></td<> |          | +        | +   | -        | +-           | -            | 4                       | _              |         |                | <u> </u>     |          |              |     |                 |               | _   | -  |          |          | 4   | <b>.</b> |     |      | -                    |          | $oxed{oxed}$   | _  |  |          | _   |   |
| 33   83   133   134     34   84   134   134     35   85   135   135     36   86   136   137     38   88   138   138     39   89   139   139     40   90   140   141     41   91   141   141     42   92   142   142     43   93   143   143     44   94   144   144     45   95   145   146     46   96   146   147     48   98   148   148   |          | ╄        | +   |          | +            | +            | +                       | -              |         | _              |              |          | <u> </u>     |     | $\sqcup$        |               |   | $\bot$   | $\perp$  |          | 1   |          |     |      |                      | _        | $oxed{oxed}$   | _  |  |          | 4   |   |
| 34  |          |          | +   |          | ╀-           | +            | 4                       | 4              |         |                | <u> </u>     |          | <u> </u>     |     | Ш               | _             | - -   |  |          |          |   |          |     |      | _                    |          | ļ              |  |  | _        | _   |   |
| 35     85     135       36     86     136       37     87     137       38     88     138       39     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146       47     97     147       48     98     148   |          | +        | +   | - -      | +            | +            | +                       | 4              |         |                | <u> </u>     |          | <u> </u>     |     | $\sqcup$        | _             | - -   | -  | $\perp$  | _        | 1   |          |     |      | _                    | $\perp$  | ↓_             |  | Ш  |          | _   | _ |
| 36   86   136     37   87   137     38   88   138     39   90   140     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          | +        | +   | - -      | +            | +            | +                       | $\dashv$       |         |                | <del> </del> |          | <u> </u>     |     | $\sqcup$        | _             | - -   | 4-4  | $\perp$  | $\perp$  | 44  |          |     |      | $\perp \!\!\! \perp$ |          | <u> </u>       | Щ  | Ш  | $\perp$  | _   |   |
| 37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          |          | +   | +        | +-           | 4            | +                       | 4              | _       | ļ              | <u> </u>     | ı        | <u> </u>     |     | $\sqcup$        | _             | 4   | 4_4  | $\dashv$ | $\perp$  | $\perp \!\!\! \perp \!\!\! \mid$                                    |          |     |      |                      |          | <del> </del> _ | Щ  | Ш  | $\perp$  |   |   |
| 38   88   138     39   90   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          | ┼        | +   | +        | $\perp$      | +            | +                       | _              | _       | $oxed{oxed}$   |              | l        |              |     | $\vdash$        | $\perp$       | $\perp$   | $\perp$  |          |          | $\perp \! \! \perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ |          |     |      |                      | $\perp$  | $\perp$        |  |  | _        |   |   |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          | +        | 1   |          | ╀            | +            | +                       | _              |         | _              | _            | l        |              |     | $\sqcup$        | _             | $\perp$   | Ш  | $\perp$  | _ _      | $oldsymbol{\perp}$  |          |     |      |                      |          | oxdot          | Ш  | $\sqcup$   | _        | $\perp$   | _ |
| 40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   |          | 4        | +   |          | 4            | +            | 4                       | 4              |         | L              | <u> </u>     | l        | L            |     | $\sqcup$        | $\perp$       |   | Ш  | $\perp$  |          | $\bot$  |          |     |      |                      |          | _              |  |  |          | $\prod$   | _ |
| 41 91 141   42 92 142   43 93 143   44 94 144   45 95 145   46 96 146   47 97 147   48 98 148   |          | $\bot$   | 1   | - -      | $\downarrow$ | +            | $\bot$                  | 4              |         | L              | <u> </u>     | l        |              |     | Ш               |               |   | $\bot$   | $\perp$  |          | $\bot$  |          |     | 139  |                      |          | _              |  | Ш  |          | ┙   |   |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   |          | $\bot$   | 1   | _ _      | $\downarrow$ | $\downarrow$ | $\perp$                 | _              |         | Щ.             | <u> </u>     |          |              |     | Ш               | $\perp$       |   | $\perp$  |          | _        | $\perp \perp$   |          |     | 140  |                      |          |                |  |  |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$  |   |
| 43 93   44 94   45 95   46 96   47 97   48 98   |          | $\perp$  | 1   |          | 1            | 4            | $\perp$                 | $\perp$        |         | _              |              |          |              |     | Ш               | $\perp$       | $\perp$   | $\perp$  |          |          | ]   |          | I   | 141  |                      |          | L              |  |  | $\Box$   | $oldsymbol{ol}}}}}}}}}}}}}}}$ |   |
| 44 94 144   45 95 145   46 96 146   47 97 147   48 98 148   |          |          | 1   |          | $\perp$      | 1            | $\perp$                 | $\dashv$       | _       | $\Box$         | L            |          |              |     | Ц               | $\perp$       |   | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |          |          |   |          |     | 142  | $\Box$               |          |                |  |  |          |   |   |
| 45 95   46 96   47 97   48 98   |          |          | 1   | _        | 1            | $\perp$      | ↓                       | $\perp$        | $\perp$ |                | <u></u>      |          |              | 93  |                 |               | $\perp$   |  |          |          |   |          |     |      | $\Box$               |          |                |  |  |          | _T  |   |
| 45 95   46 96   47 97   48 98   | 44       | $\perp$  | 1   |          | _            | $\perp$      | Ц.                      |                |         |                |              |          |              | 94  | لَـــا          |               | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Gamma}}}$ | $\Box$   |          |          |   | :::::[   |     | 144  |                      |          |                |  |  |          | T   |   |
| 46  |          |          |     |          |              |              | $\perp$                 |                | _]      |                |              |          |              |     |                 | $\Box \Gamma$ |   |  |          |          | $\Box$  |          |     | 145  |                      |          | Ī              |  |  |          | T   | _ |
| 47  | 46       | L        | Ĺ   | $\Box$   | Ĺ            | ⊥            | $oldsymbol{\mathbb{I}}$ | $ \mathbb{J} $ |         |                |              |          |              |     |                 |               | T   |  | $\neg$   |          | $\Box$  | ı        |     |      |                      |          |                |  |  |          | 十   | _ |
| 48 98 148   |          |          | I   |          | Γ            | Ι            | floor                   | J              |         |                |              |          |              | 97  |                 |               |   |  |          |          | $\top$  | ı        |     | 147  |                      | $\top$   | 1              | П  |  | $\neg$   | $\dashv$  | _ |
|   |          |          | Ι   |          | Γ            | T            | $\Box$                  | T              |         |                |              |          |              |     |                 |               | T   | $\Box$   |          |          | $\top$  | 1        |     |      | T                    | 十一       | Г              | П  |  | $\dashv$ | $\top$  | _ |
| 49  | 49       |          | Τ   |          |              | Τ            | $\neg$                  | $\neg$         | İ       |                |              |          |              |     | $\sqcap$        | 寸             | +   | 1  | $\neg$   | •        | $\top$  | ľ        |     |      | $\dashv$             | $\top$   | 1-             | $\Box$   |  | $\dashv$ | +   | _ |
| 50 100 150  | 50       | T        | T   |          | $\top$       | T            | $\top$                  | 1              | 一       |                |              |          |              | 100 | $\vdash$        | $\dashv$      | 1   | 1  | $\dashv$ | $\top$   | 1   | -        |     | 150  | $\dashv$             | $\top$   | <u> </u>       | $\vdash$   | $\dashv$   | $\dashv$ | +   | _ |